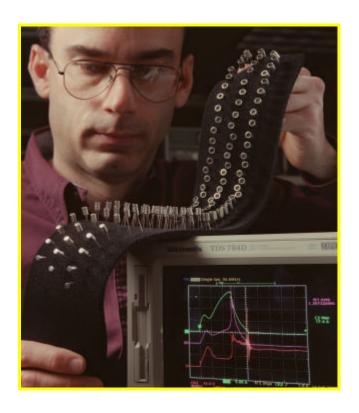


Semiconductor Bridge (SCB) Development



Objective

This effort will develop a Semiconductor Bridge (SCB) as an ordnance device that will be used in place of the NASA Standard Initiator (NSI) that is presently used. It uses a heavily doped polysilicon bridge to ignite the explosive material instead of the electric bridgewire in the NSI.

Why Needed

The Solid Rocket Booster Project is trying to remove all electronics from the External Tank attach ring on the booster's aft end. Presently, all ordnance on the booster aft end is fired from the Aerodynamic Flight Test (AFT) Integrated Electronics Assembly (IEA). If the firing circuits are moved to the forward skirt the increase in cable length will not let the system work with NASA Standard Initiators.

Point of Contact

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Sponsor

Solid Rocket Booster Project